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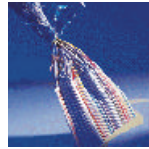
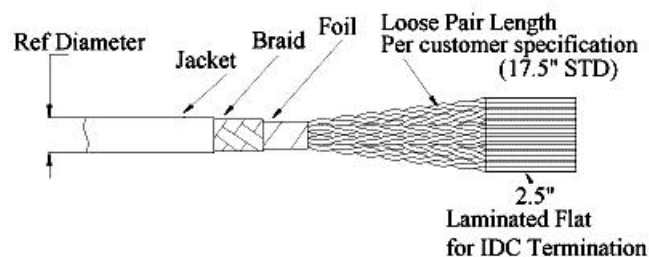
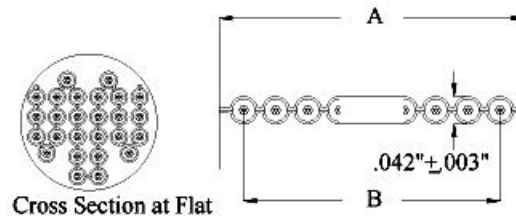
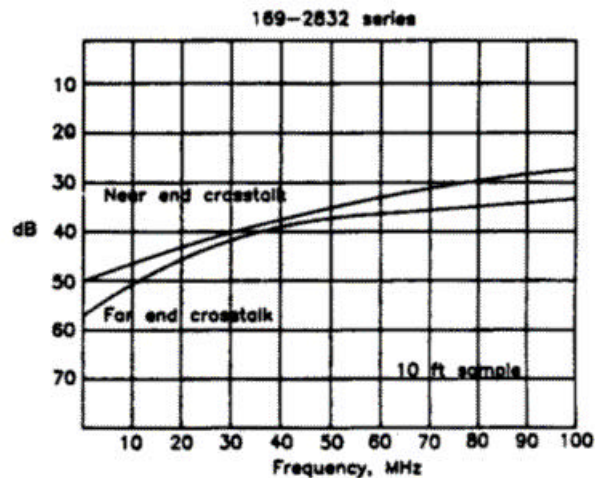
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[Part Information](#) | [Outline Drawing](#) | [Introduction](#) | [Specifications](#) | [Ordering Information](#)**Part Information:****Part Number:** 169-2832-034**Description:** Loose pair round Twist 'N' Flat aluminum and braid, .050 pitch, 28 awg, 34 conductors**Family:** Round and Flat[Add to Information Request](#)**Outline Drawing**



## Introduction

Loose Pair Round Twist 'n' Flat cable is designed to combine the electrical performance and handling features of discrete twisted pair cable with the mass termination capabilities of flat ribbon cable.

The inner cable consists of 28-7 AWG tinned copper conductors insulated with PVC and twisted into loose pairs. Conductors are laminated in parallel on .050" conductor spacing every 20 inches to accept termination to insulation displacement connectors. Laminated .050" areas can be fabricated at custom intervals. Minimum twist length is 6", maximum twist length is determined by size of put-up.

The loose twisted pairs are wrapped in aluminum polyester foil shield and overall tinned copper braid to help meet FCC requirements for EMI/RFI suppression. A round .030" PVC jacket is extruded over the cable for maximum protection and ease of routing. The center of each laminated .050" area is visible on the outer jacket to locate connector terminating areas quickly and easily.



## Specifications

Physical	
<b>Conductors</b>	28-7/36 AWG Tinned Copper
<b>Color Code</b>	Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black and Repeat with Tan Common
<b>Insulation</b>	Extruded .010" PVC Wall (Laminated Between .005" clear PVC Films at Flat Sections)
<b>Flat Pitch</b>	.050"
<b>Shielding</b>	Aluminum/Polyester Foil with Minimum 85% Coverage Tinned Copper Braid
<b>Jacket</b>	Black PVC, .030" Wall
<b>Temperature Rating</b>	-20°C to +105°C (-4°F to 221°F)
<b>Approvals</b>	169-2832-0XX
<b>Inner cable</b>	UL Recognized AWM 20130
<b>Composite</b>	UL CL2 CSA AWM I/II A105 deg.C 300V, FT-1
<b>UL Listed Type</b>	CL2 CSA Certified

Electrical	
<b>Voltage</b>	<b>300 Volts</b>
<b>*Impedance</b>	70 ohms
<b>*Capacitance</b>	25 pf/ft at 1 MHz (82.0 pf/m)
<b>*Inductance</b>	.13 uH/ft at 1 MHz (.43 uh/m)
<b>*Propagation Delay</b>	1.70 ns/ft (5.58 ns/m)
<b>Insulation Resistance</b>	1010 ohms - 10 ft. min.
<b>Cross Talk</b>	<b>Balanced</b> - See chart
	<b>Unbalanced</b> - 10 ft. sample, 5 ns Risetime 2 Lines Driven Near End - 2.3% Far End - 1.3%
<i>*Above values measured in the ground-signal mode with the shield also grounded.</i>	



## Ordering Information

		Width 'A'		Soan 'B'		Ref. Dia. Inches	
Part Number	No. Pairs	Inches	(mm)	Inches	(mm)	0XX	1XX
169-2832-O10	5	.526	(13.36)	.450	(11.43)	.250	.220
169-2832-O10	5	.526	(13.36)	.450	(11.43)	.250	.220
169-2832-O14	7	.726	(18.44)	.650	(16.51)	.260	.230
169-2832-O16	8	.826	(20.98)	.750	(19.05)	.280	.250
169-2832-O20	10	1.026	(26.06)	.950	(24.13)	.290	.260
169-2832-O26	13	1.326	(33.68)	1.250	(31.75)	.310	.280
169-2832-O34	17	1.726	(43.84)	1.650	(41.91)	.360	.330
169-2832-O40	20	2.026	(51.46)	1.950	(49.53)	.390	.360
169-2832-O50	25	2.526	(64.16)	2.450	(62.23)	.430	.400
169-2832-O60	30	3.026	(76.86)	2.950	(74.93)	.470	.440
169-2832-O64	32	3.226	(81.94)	3.150	(80.01)	.480	.450
Shielding Variations: -0XX Foil/Brand, -1XX Foil Only, -2XX No Shield, Jacket Only							